U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT		Docket Number **10644/50103**	
Application Number **To be assigned**	Filing Date **Herewith**	Examiner **To be assigned**	Art Unit **To be assigned**
Invention Title **ORGANIC PHOTOSENSITIVE OPTOELECTRONIC DEVICE WITH AN EXCITON BLOCKING LAYER**		Inventor(s) **FORREST et al.**	

Address to:
Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

2. A copy of each patent, publication or other information listed on the modified PTO form 1449 is **not** enclosed since they were previously cited by or submitted to the Patent Office in prior application Serial Nos. **10/212,661,** filed on **August 5, 2002** and **09/449,801**, filed **November 26, 1999**, now U.S. Patent Number **6,451,415**, which is relied upon for an earlier filing date under 35 U.S.C. 120.

Dated: 1/14/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449	ATTY. DOCKET NO. 10644/50103	SERIAL NO. **To be assigned**
	APPLICANT FORREST et al.	
	FILING DATE **Herewith**	GROUP To be assigned

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
	5,703,436	December 30, 1997	Forrest et al.			
	5,121,183	June 9, 1992	Ogasawara et al.			
	5,201,961	April 13, 1993	Yoshikawa et al.			
	5,315,129	May 24, 1994	Forrest et al.			
	5,350,459	September 27, 1994	Suzuki et al.			
	5,652,067	July 1997	Ito et al.			
	6,097,147	August 1, 2000	Baldo et al.			
	6,198,091	March 6, 2001	Forrest et al.			
	6,198,092	March 6, 2001	Bulovic et al.			
	6,278,055	August 21, 2001	Forrest et al.			
	6,297,495	October 2, 2001	Bulovic et al.			
	6,333,458	December 25, 2001	Forrest et al.			
	6,352,777	March 5, 2002	Bulovic et al.			
	6,420,031	July 16, 2002	Parthasarathy et al.			
	6,451,415	September 17, 2002	Forrest et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		THOMPSON et al., U.S. Patent Application Serial No. 09/311,126, "Very High Efficiency Organic Light Emitting Devices Based on Electrophosphorescence", filed May 13, 1999.
		M. Granström, et al., "Laminated fabrication of polymeric photovoltaic diodes", Nature, Vol. 395, pp 257-260 (September 17, 1998).
		G. Yu, et al., "Polymer Photovoltaic Cells: Enhanced efficiencies via a network of internal donor-acceptor heterojunctions", Science, Vol. 270, pp. 1789-1791 (December 15, 1995).
		U. Bach, et al., "Solid-state dye-sensitized mesopourous TiO_2 solar cells with high photon-to-electron conversion efficiencies, Nature, Vol. 395, pp 583-585 (October 8, 1998).

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		A. Shah, et al., "Photovoltaic Technology: The case for thin-film solar cells", Science, Vol. 285, pp 692-698 (July 30, 1999).
		C.W. Tang, " Two-layer organic photovoltaic cell", Appl. Phys. Lett., 48(2), pp 183-185 (January 13, 1986).
		C. Arbour, et al., "Surface Chemistries and Photoelectrochemistries of Thin Films Molecular Semiconductor Materials", Mol. Cryst. Liq. Cryst. ,Vol. 183, 307-320 (1990).
		Y. Hirose, et al., "Chemistry and electronic properties of metal-organic semiconductor interfaces: Al, Ti, In, Sn, Ag, and Au on PTCDA", Phys. Rev. B, Vol. 54, No. 19, pp 13 748-13 758 (November 15, 1996).
		D.F. O'Brien, et al., "Improved energy transfer in electrophosphorescent devices", Applied Physics Letters, Vol. 74, Number 3, pp. 442-444, (January 18, 1999).
		S.E. Burns, et al., "Measurements of optical electric field intensities in microcavities using thin emissive polymer films", Adv. Mater., Vol. 9, No. 5, pp 395-397 (1997).
		P.E. Burrows, et al., "Relationship Between Electroluminescence and Current Transport in organic heterojunction light-emitting devices", J. Appl. Phys., Vol. 79, No. 10, pp. 7991-8006 (May 15, 1996).
		S.R. Forrest, "Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques", Chem. Rev., Vol. 97, No. 6, 1793-1896 (1997).
		J.J. M. Halls, et al., Exciton diffusion and dissociation in a poly(p-phenylenevinylene)/C_{60} heterojunction photovoltaic cell, Appl. Phys. Lett., 68(22), pp 3120-3122 (May 27, 1996).
		L.A.A. Pettersson, et al., "Modeling photocurrent action spectra of photovoltaic devices based on organic thin films", J. Appl. Phys., Vol. 86, No. 1, pp 487-496 (July 1, 1999).
		X. Deng, et al., "Improved μc-Si p-Layer and a-Si i-Layer materials using VHF plasma deposition", 26th IEEE PVSC Conf. Record, p. 591-594, IEEE Press, NY (Sept. 30-Oct. 3, 1997).
		S.R. Wenham, et al., Applied Photovoltaics, Appendix B, Bridge Printery, Sydney (1994).

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	